

## PATENT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner  
 US Department of Commerce  
 United States Patent and Trademark  
 Office, PCT  
 2011 South Clark Place Room  
 CP2/5C24  
 Arlington, VA 22202  
 ETATS-UNIS D'AMERIQUE  
 in its capacity as elected Office

Date of mailing (day/month/year) 10 January 2001 (10.01.01)	
International application No. PCT/US00/12847	Applicant's or agent's file reference 4239-55085
International filing date (day/month/year) 10 May 2000 (10.05.00)	Priority date (day/month/year) 12 May 1999 (12.05.99)
Applicant NEAMATI, Nouri et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:  
04 December 2000 (04.12.00)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No.: (41-22) 740.14.35	Authorized officer  Jean-Marc Vivet  Telephone No.: (41-22) 338.83.38
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# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>4239-55085</b>	<b>FOR FURTHER ACTION</b> <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. <b>PCT/US 00/ 12847</b>	International filing date (day/month/year) <b>10/05/2000</b>	(Earliest) Priority Date (day/month/year) <b>12/05/1999</b>
Applicant  <b>THE GOVERNMENT OF THE UNITED STATES OF AMERICA, as</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.



as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.



None of the figures.

# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 00/12847

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D513/04 A61K31/55 A61P31/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data, BEILSTEIN Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GAROFALO ET AL.: "Thioanalogues of anti-tumor antibiotics..." EUR.J.MED.CHEM., vol. 28, 1993, pages 213-220, XP000940751 page 214 -page 217 ---	32, 35
X	GAROFALO ET AL.: "Benzothiazine and benzothiazepine derivatives..." IL FARMACO, vol. 48, no. 2, 1993, pages 275-283, XP002044896 page 277 ---	32, 35
X	US 4 045 448 A (EFFLAND RICHARD C ET AL) 30 August 1977 (1977-08-30) column 1 --- -/--	29, 37, 43-45

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

4 October 2000

Date of mailing of the international search report

25/10/2000

Name and mailing address of the ISA

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Steendijk, M

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/12847

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98 18473 A (HAZUDA DARIA JEAN ;BELL IAN M (US); MERCK & CO INC (US); MUNSON PE) 7 May 1998 (1998-05-07) claim 1 ---	1-45
A	NEAMATI N ET AL: "DESIGN AND DISCOVERY OF HIV-1 INTEGRASE INHIBITORS" DRUG DISCOVERY TODAY,GB,ELSEVIER SCIENCE LTD, vol. 2, 1997, pages 487-498, XP000911100 ISSN: 1359-6446 the whole document ---	1-45
P,X	N NEAMATI ET AL: "Design and discovery of HIV-1 integrase inhibitors" DRUG DISCOVERY TODAY,ELSEVIER SCIENCE LTD,GB, vol. 2, no. 11, November 1997 (1997-11), pages 487-498, XP002141742 ISSN: 1359-6446 the whole document -----	1-45

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP 00/12847

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4045448 A	30-08-1977	BE 851919 A	29-08-1977
		DE 2708110 A	08-09-1977
		DK 83677 A	27-08-1977
		FR 2342291 A	23-09-1977
		IT 1075299 B	22-04-1985
		JP 52105196 A	03-09-1977
		LU 76835 A	12-09-1977
		NL 7701833 A	30-08-1977
WO 9818473 A	07-05-1998	AU 4917397 A	22-05-1998
		EP 0949926 A	20-10-1999
		US 5939414 A	17-08-1999